

MICROCOPY RESOLUTION TEST CHART-NATIONAL BUREAU-OF STANDARDS-1963-A PPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

DR 1337 28 Feb 84

(12)

AD-A140 928

METEOROLOGICAL DATA REPORT 12833A LANCE Highlander, 2549 DGL

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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND



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DR-1337	AD.A140928			
4. TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERED		
12833A LANCE Missile Number 2549				
Round Number 395-DSL		6. PERFORMING ORG. REPORT NUMBER		
7. AUTHOR(a)		8. CONTRACT OR GRANT NUMBER(#)		
Unite Sands Meteorological Team		DA Task 1F665702D127-02		
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS		
	•			
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE		
US Army Electronics Research & Deve	elopment Cmd	Feb 84		
Atmospheric Sciences Laboratory White Sands Missile Range, New Mexi	ico 88002	13. NUMBER OF PAGES		
14. MONITORING AGENCY NAME & ADDRESS/II different		15. SECURITY CLASS. (of this report)		
US Army Electronics Research and De	evelopment Cmd			
Adelphi, MD 20783		UNCLASSIFIED		
		15. DECLASSIFICATION/ DOWNGRADING SCHEDULE		
16. DISTRIBUTION STATEMENT (of this Report)	·· · · · · · · · · · · · · · · · · · ·			
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Meteorological data gathered for the	he launching of t			
Number 2549, Round Number 395-DSL	are bresenced In			
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UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (Wiren Date Entered)

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INTRODUCTION

12833A Lance, Missile Number 2549, Round Number 395-DSL, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 1248:23 MST, 28 Feb 84. The scheduled launch time was 1225 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction and speed, and cloud cover were made at the Don Met Site at T-O minutes.
- (2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

DON 3600 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

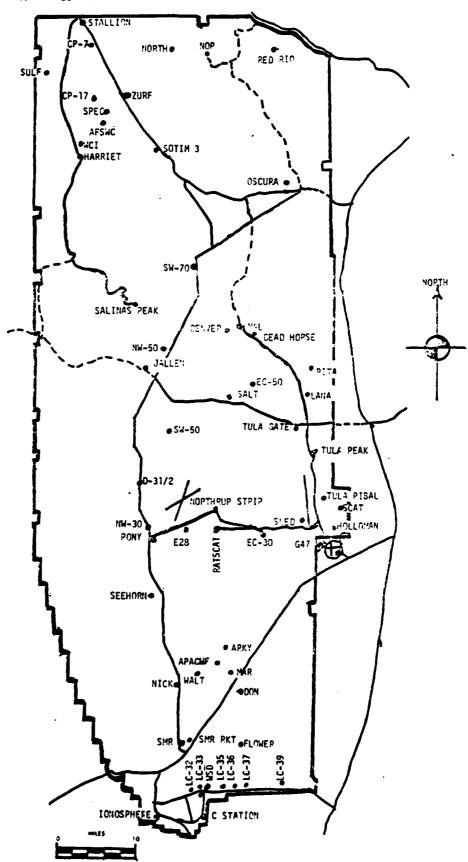
JALLEN 0830 MST WSD 1215 MST WSD 1215 MST







WSMR METEOROLOGICAL SITES



PROTECT SURFACE OBSERVATION

TABLE	-							STATION DON SITE	SITE		
DATE 28	Feb 84	7 8 T	1					^{′=} 511.988.37	Y=24	Y= 511.988.37 Y=247.396.66 H= 3996.83	3996.83
1115 M.S.T	PRESSUPE mbs	Se do do do de	380 C	ر الالمام المولاد المولاد	01:11 00	PELATIVE RUMIDITY %	853813Y 97/m2	DIRECTION SPEED degs In kts	WIND SPEED kts	CHARACTER VISIBIL- kts 177	VISIBIL- ITY
1249	885.0	1	13.5		-5.3	27	1075.1	170	90		07
·											

	Г			Γ		1
•		REMARKS				
		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
		6	HGT			
		d Laye	A:T TYPE HGT			
		1 3r	4:17			
		αí	HST			
	CI DIEDS	2nd LAYER	TYPE			
		l 2n	APIT			
		1st LAYER			cs 25,000	
			TYPE		cs	
			Lay		8	
		0esTRUCTIONS	TO VISIBILITY			

PSYCHROPETRIC COMPUTATION

TITE: MST	1249	
DRY BULB TETP.	13.5	
WET BULB TEMP.	5.2	
WET BULB DEPR.	8.3	
DEW POINT	-5.3	
RELATIVE HUMID.	27	

WINDS ALOFT DATA

TABLE NUMBER 2

RELEASED FROM	Don Site	DATE	28 Feb 84	TIME 1215	HST X YIDT

WSTM COORDINATES: X= 511,988.37 Y= 247,396.66 Y= 3996.83

METHOD OF DATA COLLECTION: S/T X D/T T-9 PAGE CAWING

HEIGHTS: METERS AGL X FEET AGL METERS MIST FEET MIST

	DIRECTION	SPEED
HEIGH	DEGREES	KIS
SFC	180	06
60	187	05
120	194	06
180	200	06
240	189	06
300	181	07
360	174	07
420	169	07
480	163	06
540	159	06
600	152	06
660	147	06
720	145	07
780	143	07
840	146	07
900	162	05
960	185	05
1020	197	04
1080	209	03
1140	221	03
1200	221	03
1260	221	03
1320	237	04
1380	245	07
1440	249	08
1500	252	09
1560	256	09
1620	257	09

	DIRECTION	SPEED
HEIGHT	DEGREES	1 KTS 09
1680	258	09
1740	261	09
1800	266	09
1860	271	0.0
1920	279	09
1980	286	09
2040	290	10
2100	293	10
2160	294	11
2220	296	12
2280	297	12
2340	30.0	12
2400	304	12
2460	308	11
2520	313	11
2580	317	10
2640	317	10
2700	316	10
2760	315	11
2820	314	11
2880	313	12
2940	313	13
3000	312	13
3060	310	13
3120	309	14
3180	307	13
3240	306	13
3300	305	13

		,
HEICHT	IDIRECTION DECREES	SPEED KTS
3360	304	14
3420	304	14
3480	306	14
3540	307	14
3600	307	14
	i	
		1
		<u> </u>
		4
		<u> </u>

MINDS ALOFT DATA

TABLE NUMBER 3					
FELEASED FROM DON SITE	ATE 28 Feb 84	TIME	1249	ST_X	T0T
USTM COORDINATES: X= 511,988.37	Y = 247,396.66	·	! =	3996.83	
ETHOD OF DATA COLLECTION: S/T	D/ f	T - 9_	X	b Wu8	PAIN_
LEICHTS: METERS AGL_X FEET AG	EL METERS MSL I	FEET "S	1		

HEICHT	DIRECTION DEGREES	SPEED KTS
		06
SFC	170	
60	180	01
120	180	04
130	160	10
-240	181	10
300	179	11
360	167	14
420	180	12
480	187	10
540	175	10
600	170	09
660	172	09
720	157	11
730	130	09
840	117	09
900	150	02
960	169	02
1020	153	02
1080	196	02
1140	211	04
1200	172	02
1260	311	04
1320	278	03
1380	258	05
1440	242	08
1500	241	10
1560	235	10
1620	242	09

HEIGHT	DIRECTION DEGREES	SPEED KTS
1680	243	10
1740	243	10
1800	243	10
1860	263	10
1920	267	06
1980	255	09
2040	278	11
2100	273	11
2160	283	10
2220	304	10
2280	281	11
2340	300	13
2400	298	13
2460	294	16
2520	308	10
2580	314	11
2640	315	11
2700	296	11
2760	306	11
2820	302	13
2880	297	12
2940	310	12
3000	305	14
3060	312	13
3120	299	17
-3180	292	20
3240	291	20
3300	295	15

3360	DIRECTION DESPES 288	SPEED PTS 18
3420	292	18
3480	294	13
3540	290	16
3600	297	13
		-
	<u> </u>	
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		<u> </u>
		<u>! </u>
······································		<u>:</u>
		1

AIMING AND T-TIME COMPUTER MET MESSAGE DATA 28 February 1984

JALLEN 08	30 MST	WSD 1215	MST	JALLEN 12	15 MST
METCM1332	065	METCM1324	064	METCM1332	065
281550124	885	281930122	886	281930124	884
00071006	27460885	00267008	28500886	00320004	28350884
01142016	27370874	01291007	28240875	01302008	28120873
02588008	27400847	02303007	27970849	02289006	27730847
03265004	27470806	03265005	27610808	03338006	27490806
04413005	27390757	04342003	27510760	04468006	27430757
05513014	27210712	05442009	27360714	05480009	27280712
06540015	27120668	06522010	27200671	06554010	27090668
07557016	26940627	07549009	26920630	07548012	26830627
08549019	26580589	03538011	26610591	08547015	26510589
09548022	26190552	09539016	26260554	09534016	26150552
10539025	25770517	10533014	25850519	10528020	25710517
11543026	25340484	11492020	25420486	11519022	25280483
12516032	24690436	12482025	24770439	12505027	24640436
13511030	23940379	13481031	23960381	13483034	23840379
14490032	23120328	14484044	23300330	14487043	23180328
15492047	22410283	15478056	22520285	15480054	22430282
16499062	21686242	16471063	21700244	16481069	21620242
17498063	21170207	17476064	21150208	17476061	21210206
18494059	21550176	18483062	21610178	18479061	21560176
19497067	21580151	19483060	21600152	19484066	21640150
20496047	21530129	20497049	21400130	20502055	21450129
21502043	21210110	21491035	21190110	21494039	21170110
22536034	21050093	22497029	20950094	22502026	21030093
23546018	21040080	23452011	21000080	23458013	21020079
24549004	21180068	24467014	21110068	24452010	21190068
25197007	21280058	25549005	21190058	25569005	21300058
26159012	21330049	26021007	21290049	26122011	21400049

STATION ALTITUDE 4051,00 FEET PSL 28 FEB. 84 0830 HKS MST ASCENSION NO. 22

SIGNIFICANT LEVEL DATA US 900 100 22 JALLEN

GEODETIC COGRDINATES 33.16712 LAT DEG 106.49511 LON DEG

TABLE 5

PRESSUR	F GLOMETRIC ALTITUDE S PSI FFFT	TEMPE AIR DFGRFFS	RATURE Dewpoint Centigrade	REL.HUM. Percent
84.	051	1.1	90	0
873.4	0	-	_	6
50.	107	•	11:	_
913.2	275.	1.5	-10.6	0.04
83.	269.	0	12	
71.	682.			۶.
51.	368.	-:-	18.	2.
22.	405.	•	22.	
60	0222.	2	20.	,
87.	2695	2.	17.	-
78.	1051.	•	-21.3	-
57.	1669.	2	24.	•
41.	2511.	2.	25.	•
79.	5136.	8	29.	•
00	P817.	7	32.	\$
78.	9877.	•	33.	ċ
7.	0276.	_	-	ċ
60.	ra16.	23.	29.	'
47.	1503.	25.	÷	ċ
32.	2325.	27.	12.	~
25.	2673.	28.	<u>;</u>	<u>~</u>
07.	3712.	29.	36.	ċ
900	4158.	30.	17.	~
66.	6168.	35.	42.	÷
53.	7017.	37.	43.	۲.
26.	8616.	42.		
0	G655.	46.		
50.	4569.	54.		
24.	6369.	59.		
G	9167.	63.		
<u>۲</u>	n077.	59.		
69	2578.	56.		
00	3703.	57.		
ċ	5146.	56.		
۲.	5532.	57.		
•	96790	56.		
-	1241.	<u>د</u> .		
1.00.1	5:520.3	-62.2		
•	7504.	63.		
•	0782.	60.		

STATION ALTITUDE 4051.00 FEET MSL 28 FEB. 84 0830 HHS MST ASCENSION NO. 22

SIGNITICANI LEVEL DATA US90030022 JALLEN

TABLE 5 Con't

GEODETIC COORDINATES 33,16712 LAT DEG 106,49511 LON DEG

REL.HUM.	PERCENT	
TE WPF RATHRE	DENPOINT	CENT IGRADE
1E # P	AIR	DEGREFS
GEOMETRIC	ALTITUDE	MSL FEET
PPESSURF		FILLIBARS

	10017.		
LLIBAR	S MSL FEET	DEGREFS	CENT 16RA
65.5	2142.	-62.2	
62.7	3036.	ċ	
57.3	4891.	0.09-	
51.5	7087.	0	
50.0	67695.8	-60.0	
38.2	3293.	v	
32.9	6419.	~	
39.0	8349	•	
75.4	1843	•	

UPPER AIR DAIA"	05 900 30 455	JALLEN	
	30	84 0830 HRS MST	10N NO. 22

STATION ALT	1100	4051.00 FEE	ET MSL		05 900 10 12	22		6600611	C CUORDINA
G FEB.			n		JACLEN			•	DVIZ LAT DE
1016116	•				TABLE 6			•	44311 ENR DE
GEOMETR1C	PRESSURE	E	ATURE	REL.HUM.		SPEED OF	WIND D	ATA	INDEX
ALIIIUDE PSL FEFT	PILLIBARS	DEGREES	CENTIGRADE	P.E.	M/CUBIC Meter	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	OF REFRACTION
-	•	÷			22.3	645.	Ċ	•	.00026
500	-	0			1108.3	644.2	•	-	00025
5000.0		۳.	-11.4	•	086.	44.	\$		00025
. 5500 •0		x 0			6	45.	70.0		.00025
0.0009	-	•	10	0	042.	45.	4		.00024
0.0059	•	1.4	-10.9	Q.	•	45		•	•
2000.0	791.2	1.1	-	17.8	4.	\$		12.6	0002
7500.0	•	٤.	*	\$	87.	77		•	0002
0.000s	761.8	• •	-15.5	6	·	77			2000
8500.0	:	٥.	æ	:	•	\$		•	000
0.0006	·	.2	20.1	ċ	•	77	-	•	000
9500.0	719.6	•	~	~	6	43	•	•	000
0000	٥	-1.7	;	~	•	42	289.1	•	000
10500.0	2		~	æ	ċ	641.5	292.3	•	.0002
11000.0	~	•	ċ	2	•	4.1	295.8	•	.0002
11506.0	66.	•	23.	æ		4	303.2	٠	.000
12000.0	53.	-2.3	-54.6	•	÷.	7	310.0		.0001
12500.0	41.	-2.7	5	è	•	40	311.9	•	1000
13000.0	29.	8° £ -	-25.8	÷.	*	8	313.3		.0001
13500.0	17.	9.4-	20	ġ.	•	38	310.7	•	.0001
14000.0	50	6.5-	25	16.0		3.7	308.5	•	.0001
14500.0	5	0.7-	•	16.0	. °	3	0.60x	•	.0001
15000.0	282.2	- F	200	0.01		634.4	3.60%	20.5	1.000173
14000		7.01		, a	• .	7 6	4 80 5	•	
16500.0	6.8	-11.8	5.0	10.3		. 0	8.90%	• •	000
	37.	-13.1	0		•	28	304.8		000
17500.0	27.	-	:	_		~	304.0		0001
0	516.6	-15.6	1	23.0		25	104.1		1000
	00	•	-32.4	•	87.	23	104.4		0001
19000.0		-18.1	32	•	77	22	305.1		000
19500.0	486.2	-19.5		28.5	67.	20	305.4		0001
COOD	76.	-20.9	7		•	18	•	•	0001
0200	466.7	-22.3			•	17	301.0	26.1	0001
1000	57.	-23.7	\sim	58.3	38.	15.	95.	•	0001
1500	47.	•	•		4.9.4	13.	•	•	5
0	38.	-56.4	7.11-	62.0	α	_	۶.		0001
2500	~	•	•	65.5	٠	10.	86.	•	001
23000.0	420.5	-28.5	2	4.9.5	8: ·	Ô	80	•	0001
3500	=	•		8.5	œ, œ,	608.2	80	•	1000

STATION ALTITUDE 4051.00 FEET "SL 28 Feb. 84 0830 HRS MST ASCENSION NO. 22

UPPFR ATR DATA CS90030022 JALLEN TABLE 6 Con't

15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15

ACCOLLECTION (COCCOCCITATIONS INTERIOR SECTIONS)

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG

GEOMETRIC	PRESSURE	1686	EMPERATORE ACUBATAT	REL.HUM.	DENSITY CM/CHG1C	SPEED OF	WIND DA	TA	INDEX
MSL FEET	MILLIBARS	DEGR	J		METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
4000	02.	0	-77.2	-	578.1	6.909	290.0	36.4	1.000130
4500	94.	P	-18.2	2	56A.5	605.	290.1		1.000128
5000	85.	32	-39.5	÷	559.1	603	7.065		
5500	77.	1	2.03-	ċ	249.8	602	280.6	Š	\sim
600n	69.	-35.2	-42.0	•	240.7	601.	288.2	۲.	\sim
6500	61.		-42.7	51.3	531.7	599	786.A	30.4	1.000119
7000	53.	M	-43.2	3	522.7	598.	284.3	•	•
7500	45.	0.65-	-47.3	40.244	514.3	~	281.9	•	~
8000	38.	40	-52.7	25.044	506.1	294.	279.2	.	_
200 F	30.		-61.4	9.7**	98.	595	2.922	0	•
9000	23.	43			489.6	290	273.4	?	1.000109
9500	16.	4			480.7	\$89	273.2	Š	1.000107
0000	66	J-45.U			471.9	S.	273.1		1.000105
0200	02.	46			463.3	587	273.7	-	1.000103
1000	95.	4.7			454.9	585	524.9	2	•
1500	88.	83			446.6	284	276.0	,	•
2000	81.	-49.3			438.4	585	276.8	•	1.000098
2500	75.	50.			430.5	28	277.5	49.5	1.000096
3000	69.	8			422.6	88	278.7	3	•
3500	62.	-52.6			415.0	2	6.622	56.9	1.0000°2
4000	56.	5.3			407.4	27	280°4		1.00001
4500	50.	2			400.1	22	280.9	-	1.000089
2000	44.	2			392.6	574.3	280.9	62.5	1.0000 47
5500	6.	2			385.3	2	280.6	\sim	1.0000%
0000	33.	58			378.1	2	280.2	62.5	1.0000 %
6500	27.	20				\$	28U°5	~	•
2000	22.	٥ <u>0</u>			363.8	2	780.1	S	•
7500	7.	9			156.1	26	270.9	64.7	1.0000 79
3,000.0	211.8		•		348.6	266	279.2	63.5	1.000078
	9	20			24.1.5	707	x • x / /	5.29	1.0000.6
	•	•			1046	400	4.017	•	* 0000
9000	96	- 6			324.3	266	278.	: ,	1.000072
0000	96				317.5	200	2	7.10	1.0000
0200	٦,	20			304.9	220	278.1	ċ	1.000068
1000	*	^			296.8	571	7	٠	1.000066
1500	œ	-57.7			œ.	571.	œ ~	•	1.000064
0	4.	-57.1				572.	0		1.000063
2500	•	-56.5			23	57		•	1.000051
000	•	-56.8			6	•	80	60.7	Ó
5500	~	•			201.9	~	279.8	63.0	90

AT LEAST O'L ASSIMFU RELATIVE HUMINITY VALUE WAS USED IN THE INTERPOLATION. •

UPPFR AIR BAIA

AND MONTH ARREST AND AND ARREST SOUTH TOWNS AND THE SOUTH SOUTH ARREST ARREST ARREST ARREST AND A

2	111006 40	51.00 FEET		2200 00650 C2400 0055	22 22		_	C COORDINA
6 (fo. 8		ST HES MS		JAL L EN			33.	16712 LAT DE
78C (#8 10K	110.			TABLE 6	Con't		106.	511 LON DE
1E T R	PRE SSURE	TEMPERATURE	REL.HUM.	DEMSITY	EEO	6 Z Z	ATA	LNFX
ALTITUDE MSL FEET	MILLIBARS	AIP DEGRES CENTICANDE	Ž.	3 2	SOUR? KROIS	DIRFCTION DEGREES(TN)	SPEED KNO 1 S	OF Refraction
4000	00	4		55.	~	4	Š	20000
44500.0	154.7	2.6		249.5	572.5	278.5	65.7	8
5000.	-	r		4.3.	~	•	•	.00005
5500.	7	7.5		3.8.	\sim	•	8	.0000
ċ	45.	•		32.	\sim		;	•
•	Ö	57.6		27.	•	÷.	-	0000
7000.	37.	-57.7		21.	•	:	۲.	•
750F.	133.9	-57.7		:	_	•		0000
8000	÷	-57.8		Ξ.	_	ċ		200
ċ		-57.9		٥٧.	-	Ę.	•	0000 t
.0005	24.	-57.9		5	_	8	Š	00000
.50u.	7.	-58.0		96	_		۲.	0000
0000	•	-58.7		5	_	€C	•	2
C200.	15.	69.7		•	3	_		70000
1000	13.	-60.8		۲,	~	⊂	•	-3
1500.	÷	-61.4		÷	·C.	•	•	1.000040
ċ		-61.0		•	•	280.5	42.0	1.000040
2500.		-61.8			•	~	~	1.0000 49
3000.	•	-42.0		•	566.1	~	* 1	1.000018
3500.	÷	-62.2		٠.		.		1.0000.1
4000		-62.4		_	~	•	ċ	1.000036
4500.		-62.5			~	Œ	•	1.000015
5000.		-62.7		151.9	565.2	•	•	1,0000.1
5500.	ċ	-62.8		ċ	~	C	÷	1.000033
6000°	<u>.</u>	-63.0		1, 1,		•	•	1.000013
6 20 0 .	:	-43.6		.*	•			1.0003.2
700r.	•	-63.5		•	9	•		1.00001
7500.	•	-A3.5		ċ	9	_	•	1.0000 30
£000°.	÷	-63.1			6.4	•	•	1.000030
8500.		-42.7		•	65	$\overline{}$	•	1.000029
900n.	:	-62.3		÷	65.	_	•	.1 . 0000 28
9500.	•	-61.9		~	99	C	ċ	.0000
coou.	•	-61.4		÷	•	\sim	•	$\overline{}$
.0000	<u>:</u>	-61.0		116.5		Œ	8.6	1.000026
1000.		-61.0		,	67.	137.1	•	1.000025
1500.		-61.5		-	99	,	•	1.000025
2000.	•	-62.1		•	66.		-	1.000024
2500.		-61.0		÷	99	_	3.5	
ċ	~	-40.7		101.0	567.9	~	•	
3500.		-60.5		ċ	68.	ċ	•	0000

STATION ALTITUDE 4051.00 FEET PSL UPPFR AIR DATA 28 FEB. 84 0830 HKS MST JALLEN ASCENSION NO. 22

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GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG

TABLE 6 Con't

GEORETBIC ALTITUM	PRESSURE	TEMP	ER ATURE DEUPOINT	REL.HUM. PERCENT	DEMSITY GR/CUBIC	SPEED OF	WIND DA	ATA	INDEX
WSL FEET	MILLIBARS	DEGRIES	CERT JGRADE		MF TER	KNOTS	· •	KNOTS	REFRACTION
4000		-60.3			97.9	568.4	137.7	3.0	1.000072
4500.		0			95.5				.0000
0.0008	57.0	0.09-			93.2	568.7	106.4	10.5	0000
5500.	Š	-60.2			91.0	568.4	105.0	•	•
6000.	4	•			88.9	568.2	105.0	•	•
6500.	<u>۳</u>	-60.7			÷	567.9	1001	9.5	1.000019
7000.	:	6.09-			84.9	567.6	•	•	1.000019
7500.	ċ	•			82.6	568.4		11.4	.0000
8000.	ċ	-59.k			ċ	269.0		•	.00001
8500.		-59.5			78.4	269.4		15.2	1.000017
9000		2.65-			76.5	569.8	,	•	.0000
0.00269	š	-58.9			74.5	570.2	98.1	14.5	1.000017
1100 U.	,	-58.0			72.7	570.6	92.2	•	•
0500	~	-58.3			ċ	571.0	•	•	.0000
1000.	2	-58.0			69.1	571.4	83.1	•	.0000
1500.	÷	-57.7			67.3	571.8		22.3	1.000015
2000.	÷	-57.4			9.59	572.2	ċ	•	.0000
2500.		1.72-			0.19	572.7	78.0	25.8	1.000014
3000.	æ				9.29	573.1	۲.	26.1	1.000014
3500.		-56.7			ċ	573.2	71.9	•	.00001
4000	•	-56.8			59.5	573.0		26.4	•
4500.	÷	-56.9	•		•	572.8		•	1.000013
5000.	\$	•			ç	572.6	•		1.000013
5500.		-57.2			\$	572.4		•	1.000012
6000.	÷	•			4.	572.3		•	1.000012
6500.	2.	•			5	572.1	,	•	1.000012
7000	?	-57.3			•	572.3	81.2	•	-
7500.	:	•			o.	572.5	,	•	•
8000°	•				•	572.7		•	1,00001
8500.	.	\$			0.84	572.9	65.2	•	1.00001
900c	•	-56.7			•	573.1	Y• 19	•	1.000010
9500.	æ	\$			•	573.3	•	36.4	•
0000		-56.5			44.6	573.5		•	1.000010
0000		÷			~	573.6			•
1000	è	ġ			•	573.8			1.000009
1500.	٥.	-56.1			41.4	574.0			1.000009

STATION ALTITUDE 4051.00 FEET PSL 28 FEB. 84 0830 HRS HST ASCENSION NO. 22

MAMDATORY LEVELS 6590030022 Jallen

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG

TABLE 7 Con't

PRESSURE	GEOFOTENTIAL	TEN	TEMPE PATURE	REL.HUM.	02.5	DATA
HILL IBARS	ferr	AIR DEGREES	DEVPOINT CFNTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED) KNOTS
A50.0	5104.	4.	-11.3	41.	66.7	11.4
800.0		1.2	-11.3	39.	221.0	•
75.0	8403.	1.0	-18.4	22.	255.2	17.3
700.0	_	-2.2	-20.0	24.	290.6	•
650.0		-2.4	-24.7	16.	310.6	
40u.0		7.9-	-28.0	16.	308.7	18.6
550.0		-11.6	-30.5	19.	307.1	~
500.0		-17.6	-32.8	25.	304.8	S
450.0		-24.7	-30.n	61.	290.7	•
400.0	24120.	-30.9	-37.3	53.	290.1	36.5
150.0		-38.2	6.77-	40.67	283.3	0
30,00		-46.3			274.1	-
250.0		-54.9			280.9	•
200.0		-63.1				•
175.0		-57.2			-	•
150.0	45023.	- 56.9			278.8	65.7
125.0		-57.9				~
100.0		-62.2		•		
80.0		-63.0			311.0	19.4
70.0		8.09-			28.	5.3
67.0		-60.3		•	æ	2.3
50.0		0.09-				12.1
40.0		-57.2				25.1
30.0	78022.	-56.9			65.8	30.6

AT LEAST OWE ASSUMPD RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION. •

STATION ALTITUDE 3939, PO FELT 'S LEU. P.4 1215 HRS HS' ASCENSION NO. 78

KKKI DEKKON SESEMBLE SESEMBLE

SIGNIFICANT LEVEL DATA

GEODETIC CUONDINATES 32.40043 LAT DEG 106.37033 LON DEG

8400000650	UHITE SANDS	TABLE . 8
*5L	_	

Presun	LOMET	d a J	ATURE	RFL.HUM.
	ALTITUBE C WC1 FEFT	AIR	DEWPOINT	FRCEN
. 8	606	•	7.	7
.62	100.	•	10.	ä
62.	718.	7.1	11.	۶.
50.	100.	•	:	7
92.	977.		13.	;
72.	678.	6.	19.	ů
.99	844.	2.2	20.	,
43.	660.	2.5	7.	ġ
J.00.	10252.8	7	-20.8	20.0
0	fu15.	•	19.	2
67.	1484.	_	20.	5
55.	958.	Ë	70.	-
13.	4692.	\$	27.	÷
.,	4073.	3	23.	<u>~</u>
78.	52n6.	×	27.	ċ
73.	5416.	œ	27.	ċ
9	*098 ₆	17.	-	8
55.	1132.	23.	8	,
47.	1577.	23.	0.	ň
23.	.0u62	27.	49.	~
5	4210.	•	۲,	2.
88	4869.	32.	41.	~
53.	7017	36.	46.	÷
39.	79RD.	ă K	48.	÷
20.	.6520	.13		
Š	111.	. 77		
73.	.911	50.		
50.	4655.	. 75		
2 8•	4791.	60.		•
7.	.9.22	62.		
ر. د	9247.	62.		
7.	1105.	\$6.		
.60	1397.	57.		
72.	2372.	55.		
۲,	.425.	9		
54.	4506.	55.		
50.	.,,,,	Ş.		
C. 4	4612.	25.		
54.	7545.	58.		
.97	2342.	<u>:</u>		

STATION ALTITUDE 3929.00 ffet #51 1215 HRS MST ASCENSION NO. 28 ffB. 84

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SIGNIFICANI LEVFL DATA OS90020028 UNITE SANDS

TABLE 8 Con't

TEMPFRATURE

AIR DEUPOINT DEGREFS CENTIGRADE PRESSURF GEOMETRIC ALTITUBE MILLIBARS MSL FEFT

-63.6

-62.5 -60.3 -58.0 -61.0

53585.4 58150.6 59413.8 67324.2 67716.8 200.0 200.0 200.0 200.0 200.0

-56.8 36778.7

REL·HUM. Percent

GEODETIC COORDINATES 32,40043 LAT PEG 106,37033 LON PEG

and the second

15

STATION ALTITUDE 3989."3 FEET MSL 26 FEB. 34 1215 MAS MST ASCURSION NO. 78

WARRY TO STATE OF THE STATE OF

UPPFN AIR DATA OS90070078 White Sands

GEODETIC CORROTHATES 32.4UA43 LAT PEG 106.37033 LON PEG

MANAGER COMPANY COMPANY

TABLE 9

PRESSUR	RE TEMP Alm RS DEGRTES	PERFIURE OFWPUINT CENTIGRADE	RFL.HUM. PFRCENT	GAZCUBIC SOF	PEFD OF Sound Knots	UIND DA DIRFCTION DEGRFES(TN)	ATA Speed Knots	INDEX OF Refraction
_		-7.1	~	1083.6 6	5.7	150.1	8.0	1.000258
•	-	•	•	083.6	57.	•	•	· 0005
~	.	=	;	075.	53.	~	•	1.000252
9		- -	÷	061.2	25	æ.	4.9	2000
2	~	==	œ CX	046.5	20		•	.000z
0	٠.	=	ċ	032.5	48.	•	•	1.000242
2	4	12.	?	•	47.	148.6	g • 9	.0002
2	.7	-13.2	13.5	0.700	45.	40		•
•	~	2	~	7.4	45.	54.	•	1.000227
3 2.	۵.	ŏ.	3	6.5	•	185.8	M.	•
1 2.			Ģ	5.9	46.	16		1.000216
1.	_	ċ	16.8	2.	4.5	33.		1,000213
•		6	83	æ. v	44.	44.	•	1.000210
		5	6	•	43.	57.		1.000207
• - •			:	~	43	·. 9		1.000204
		-19.9	22.0	_	643.1	28P.\$	10.0	\sim
.1.		ċ	2	œ	۲5	89.		•
8 -2.		.0°	:	~	4.1	67		1.000193
3 -3.		,	ô	6	40	04.	•	_
1 -4.		. 4.	8	m	Š	ċ	•	1.000196
1 -5.		56.	;	0	3.8	10	•	1.0001 F3
5.9		-24.3	_		1	٠,	10.1	1.000170
5 -6.		25.	÷	ŗ.	35	05.		_
. a-		9.9.	0	٠.	34		•	_
.8- 7		27.	ؿ	ec • 2	~	01.	•	1.000171
4 -10.		27.	÷.	1.5	32	01.		_
~		8.	2	M)	0	303.1	•	_
8.5 -12.5		9.85-	٠,	•	5∂	¥•₹0±	•	1,000163
9 -13.		63	,	· ·	27	302.8	•	-
5 -15.		ō.	÷	۰.	ž	96.	•	_
2 -16.		5	۲.	87.5	7.	87.	•	1.000156
117.		<u>:</u>	٧.		<u>ب</u>	ċ	•	_
1 -18.		- 13.1	÷	(, V.)	7	275.6		1,000151
2 -20.		,	ċ	57.0	19	74.	•	_
5 -71.	_	2.9	٠.	2.5	18	74.	•	1000
0 -22.	_	•	2.2	37.5	10	7.16	•	1.000143
6 -73.8	٠.	35	*	A.5	15	4.57	•	_
325.			v	٠,	r)	72.	•	_
2 -26.	_	- 19.1	7.5	9 6.704	=	~		1,000177
<u>ر.</u>			٠	٠ ۲٠	٠6	265.0	•	1.000115

STATION ALTITUDE 3929, OF FELT MSL. 26 FEB. 84

UPPER AIR DATA 0590,20078

GEODETIC CUORDINATLS

32-40043 LAT DEG 106-17033 LOW DEG INDEX WIND DATA REL. HIM. PLASTIY SPEED OF TABLE 9 Con't WHITE SANDS TEMPER STUKE GLOMETRIC PRESSURF ASCENSION NO.

1117
1.00011
36.3
274.F
599.3
521.7
36.1
-46.1
-16.5
9

** AT LEAST O"L ASSUMED RELATIVE HUMIPLITY VALUE WAS USED IN THE INTERPOLATION.

UPPER AIR DATA US9002007R WHITE SANDS

TO SOLVE TO THE STATE OF THE PROPERTY STATES OF THE STATES

and the second

	0.302			UPPER AIR DAT	DATA			
res.		15 HRS		WHITE SANDS	2 2		32.	32.40043 LAT DEG
ASCERS TON	NO. 78			TABLE 9	Con't		106.	LON DE
GEOMETRIC ALTITUDE	FRE SSURE	TEMPERATURE Alb Diupolni	RFL.NUM.	DENSITY GM/CHRIC	SPEED OF	ETEP D	ATA	INDEX
MSL FEFT	MILLIBARS	DEGREES	•	MFTER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
250	144	4			577		7	0000
44000.0	159.2			255.5	873	272.8	63.8	30
450	155.	5			574.		-	0000
500	151				573.	_	3	.0000
550	148.	•		•	572	C	5	0000
600	144.	-58.5		•	570.	-	~	•
650	141.	9.63-			569.	\sim	0	
4,7000.0	137.	6.5			569.	v.	54.9	0000
750	144.	•		•	570	ů		•
860	131.			•		ئ	•	• 0000
\$20 50 50 50 50 50 50 50 50 50 50 50 50 50	128.	•		•	570	ċ	•	*0000
200		•		Ć3.	269	:	v. 87	.0000
950	122.	•		ċ		7.08c	\$	• 0000 ¢
က္မ	119.	•		194.8	56.B	$\overline{}$	٠	.0000
000	116.			190.4		$\overline{}$		1.000042
100	113.			186.2	26.7	0	7	1.00001
150	110.	-61.2		182.0		О	•	1.000041
002	108.			170.0	999	æ	36.1	.0000
52500.0	105.	•		174.1		278.5	33.3	~
20	102.	•		120.4	565.1	0	ċ	0000
350	100.	-43.5		164.8			ċ	а .
4 in 0	۰ ۵	•		162.9	563		~	20000
450	• \$ •	-63.7		159.0	563	7	33.2	1.0000 \$
55	93.	•		155.1	563	7	_	0000
550	91.	-63.8		151.4	563	~	0	r 0000
و د	ສ. ສ	•		147.7	Š	~	,	0000
650	٠ د .	•		144.2	563		٠	1.0000 12
0.2	7 2	•		7.071	563	•	\$	
750	~ (B∵ (•		137.3	563	، ت	-	1.00001
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0.00539	71.	-42.2		•	545	ø	•	1.0000.26
5	69	۲.		,	265	64.		0000
0	(7.	ċ			545.	9.59	12.2	0000
00.7	3	·,		o.	545.	720.4	12.3	0000
0°00579	. 79	-62.0		·		Š	12.5	1.000024
ر آ	.; .;	-61.8		101.8	546.4	0.170	13.2	1.0000.73

UPPER ATR DATA

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Continue			6	,		MIN MINIS	< - C		1	
		110011	39.00 PT	7 2 4		30,004,0	E 4		6 6 0 0 6 7 1	C CCOKBINATE
TABLE 9 CON'T THEILDR'S DEGREES CHILD'ANDE MATTER AIP DEGROUNT POPECUTY FORCE SOUTH DATA AIP DEGROUNT POPECUTY FORCE SOUTH DATA AIP DEGROUNT POPECUTY FORCE SOUTH DATA AIP DEGROUNT SOUTH FORCE SOUTH SOUTH DATA AIP DEGROUNT SOUTH SOUTH FORCE SOUTH SOUTH DATA AIP DEGROUNT SOUTH S	SCENS TON	NO. 7		•			?		30	40043 LAI 75
		ı I				6	Con t			
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101.2 566.6 281.2 14.5 101000000000000000000000000000000000	A	11 L 16 A R	AIP	D FWPOINT Entigrad	7	M/CUB! Nf Ter	SOUND	DIRECTION EGREES (TN	SPEED KNOTS	OF . FFRACT 10
1,000 1,00	1500.	413	-				566.	-		, 0000
\$500.0 \$4.2 \$6.7.0 \$87.1 \$12.1 \$100.0 \$500.0 \$5.7 ************************************	4.000	59	9				266.		• •	0000
SYOLOLO 57.1	4500	10 10	_				567.		•	2000
55.7 750.7 750.7 750.7 750.7 750.7 750.0	5000.	57.	-				567.	0		0000
6500.0 54.4 -60.0 89.2 567.6 318.0 4.5 1.0000 7000.0 51.3 -60.0 80.2 568.5 25.7 7.1 1.0000 7000.0 41.3 -60.4 80.3 568.2 25.7 7.1 1.0000 7000.0 42.3 -60.4 80.7 568.2 25.7 7.1 1.0000 7000.0 42.1 -60.1 76.7 568.2 25.7 7.1 1.0000 5000.0 47.0 -60.1 76.7 568.2 25.7 7.1 1.0000 5500.0 47.0 46.6 56.2 7.7 1.0000 1.0000 5500.0 47.7 568.2 25.7 7.1 1.0000 1.0000 5500.0 47.7 569.2 56.2 7.7 1.0000 1.0000 5500.0 47.7 569.2 56.2 7.7 1.0000 1.0000 5500.0 47.7 569.2 56.2 7.7	5500.	55.	-				567.	ά.	•	0000
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2500.0 24.5 -57.4 1.00000 39.7 572.3 83.2 25.8 1.00000	2000.	25.	_	•		ئ	72.	ď	\$	0000
39.7 572.3 83.7 25.8 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	2500.	74.	_			¢.	25	`.	۶.	0000
	:00G:	54.	-57.3			•	^	₽,	8	0000

STATION ALTITUDE 39F9.FO FFET "SL	1215 HHS MST	
39 F9 . F0	1215	8
L 71110E	4	
STA110K	28 FEB. 84	ASCENSION NO.

UPPER ATR DATA US9002007R WHITE SANDS

KONT TOTOTO BESTÄLLE STOTOTO BESTÄTT FREEZE KONTON KERKEN. GETÄÄRE FREEKEN TOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTO

GEODETIC COONDINATES 32,40043 LAT DEG 106,37033 LON DEG

TABLE 9 Con't

61 0MF T # 1C	PRESSURE	TLMP	TLMPERATURE	RFL.HUM.	DEMS1TY GM/CHRTC	SPETD OF	AIND DATA	1 A	INDEX
MSL FEET	FILLIBARS	٥٤٤	R'ES CENTICPADE		MFIER	KNOTS	DEGREES (TN)	KNOTS	RFFRACTION
83500.0	73.4	7.3			37.8		82.9	27.2	1.000008
84000.0	25.8				36.9	572.5	8.2.5	28.6	1.000008
84590.0	22.3	-57.1			34.0		62.5	29.8	1.000008
85000.0	71.8	7.1			35.1		C . 80	30.7	1.000008
85500.0	21.3	D. 75-			34.3	572.8	P. T. 4	31.6	1.00008
8 6000.0	8.02	6.93-			37.4		0.78	32.3	1.00007
86500.0	20.3	3.95-			32.6	573.0	84.9	32.3	1.000007
8 7000 .0	19.8	0.93-			31.8	573.2	85.7	32.4	1.00007
9750F.0	19.3	-56.3			31.0	573.7	86.5	32.4	1.00007
8 5000.0	18.9	-45.9			M. J.	574.2	86.7	32.7	1.00007
8.00.0	18.4	-55.5			29.5	574.7	87°n	33.0	1.000007
0.00009	13.0	-45.1			20.8	575.2	87.2	33.1	1.00006
85500.0	17.6	2.95-			20.1	575.7	85.0 0.0	31.5	1.000016
9000°	17.2	7.75-			27.4	576.2	87.8	29.3	1.00000
90500.0	16.8	0.45-			24.7	•	80.7	27.2	1.000006
91000.0	16.4	-53.6			24.0	577.2			1.000006
91500.0	16.0	-53.2			25.4	•			1.000006
D*J0U?6	15.6	4.55-			24.7	•			1.000005
0.0025	15.3	-52.5			24.1	5.8.5			1.0000

STATION ALTITUDE 3989.00 FFET MSL 28 FFB. 84 1215 HRS MST ASCENSION NO. 78

MANDATORY LEVELS US90020078 WHITE SANDS

GEODETIC COORDINATES 32.40043 LAT PEG 106.37033 LON PEG

TABLE 10

PRESSURE CI	CF OPUTENTIAL		TEMPERATURE	REL.HUM.	0 0" I'A	DATA
		AIR	PEUPOINT	PERCFNT		SPEED
MILLIPAMS	151	DFGREES	CFNTIGRADE		DEGREES (TN)	KNOTS
850.0	510?	6.5	-11.1	27.	159.4	6.2
800°0	6720.	1.7	-12.8		148.9	2.4
757.9	8 424.	2.2.	-20.A	16.	212.0	0
20.00	10247.	7	-50.4	20.	262.4	
650.0	12 181.	-2.4	-21.6	21.		
0, ۵۰	14749.	7.9-	24.3	22.		10.2
\$50.0	16461.	-11.1	-28.4	22.		15.5
200.0	18034.	-17.1	-31.2	28.		16.8
65.0	21392.	-23.7	-38.7	23.		55.8
0°007	74171.	-32.3	-37.1	62.		28.5
35.0	27 2 34 .	-37.2	-46.7	36.		57.2
300.0	30671.	-44.7				53.2
250.0	14 < 8 1.	-54.7				2.09
200.0	79154.	-62.1				66.5
175.0	41 205.	- 56.3				58.6
150.0	45120.	-56.9				55.1
125.0	48876.	-59.4				68.5
100.0	53421.	-63.6				6.0
8,0	57910.	1.49-		•		9.3
0* س۷	£0617.	-62.5				12.6
0.09	A3745.	-61.5				14.0
0°us	47464.	-60.3				7.1
0.07	72039.	- 59 . 3				10.1
30.0	. 09622	0.85-				6.92
25.0	174	-57.5			80.0	25.0
U*u 2	96176.	- 56 . R				12.3

STATION ALTITUDE 4051.00 FFET HSE 28 FFB. 84 1215 HKS HST ASCENSION NO. 23

SIGNIFICANT LEVEL DATA US 900 30023

JOSEPH FINISTORIA FRANKISK BESSESS FREEDER JERODER KREIKER BESSESSE SEKKING TEROFIEL KAN

GEODETIC CURRDINATES
33.16712 LAT REG
106.49511 LON REG

TABLE 11

PRESSURF	CLOME T	-	RATURE	RFL.HUM.
MILLILARS	ALTITUBE S PSL FEFT	AIR DEGREFS	DEWPOINT CENTIGRADE	₩ ₩
•	05.1.	•	80	ò
2	468.		•	4
~	5098.7	0.4	-11.6	31.0
16.	176.	•	13.	4.
S.	528.	•	٠	j
62.	977.	••	16.	۲.
. 77	614.	1.5	19.	•
90	.25.	•		?
63	1405.	2	20.	4.
.50	40r3.	•	24.	~
.44.	6074.	۶.		>
00.	4804.	&	75.	7.
85.	9526.	ö	29.	<u>~</u>
•	2805.	8	•	۲.
00.	4175.	32.	\$	Š
94.	.6457	33.		20
75.	.616.	35.	•	۶.
54.	4918.	37.	46.	ဆံ
7.00.	671.	9.57-		
sn.	.9757	55.		
223.1	6907.	60.		
90	8.66.20	63.		
ë.	0114.	60.	•	
76	.7820	58.		
•	ncho.	58.		
ď,	1894.	57.		
•	2423.	57.		
•	.117.	57.		
•	6397.	55.		
•	26.30	ţ.		
•	1407.	. 79		
•	6646.			
ċ	.141.	~		
<u>.</u>	7067.	59.		
۲.	7973.	57.		
	0319.	57.		
υ•υ?	1642.	-55.1		
17.1	r166.	-54.3		

100 March 100 Ma

	•								Si
				-	RAIR	DATA			
STATION AL	UDE 40	51.00 FE	ET FSL MST		05900 300 JAI LEN	۲2		- F. 4	
7	•				TABLE 12			•	NO 1 - 1 - 6 - 5
GEOMETRIC	PPESSURE	₩ 4 E	PERATURE	1	DENSITY	SPEED OF	2	ATA	1 NOF X
ALTITUEL PSL FEET	MILLIBARS		PFU	PFRCENT	M/CUB1C	SOUND	DIRECTION DEGREES(TN)	SPEED	Z Z
4051.0	A 3.	10.0	٠.	3	· •	959	ċ	4.1	2000
•	0 "	3·	-12.1	€. 4° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5°		652.2	177.8	9.4	.0002
5 C	77.		1.00	• ^	•	647		> ° °	v c
	21.		-12.7	'n		979	8	8.0	2000
نے			M	6	-	979	90.		5000°
0	•	٠. د د	4 .	÷ (, ·	579	12.	æ .	
•	•	~ ·	\$	ċ.	٠,	645	•	9.9	. 0002
0.0058			10.4	• -	. 00	770	, «	7.4	
		(3) (20	: _:		645	54.	8 0	.0002
0.0056	719.6		3 :	•	2	779	67.	8.5	.000
0 0	•) ·	- 18.0	•	• h	645	œ. •	•	200
Şē	9.629	3.	10.4	\$	872.2	641	- 3	- ^-	2000
.			-200-	P 7	57.	641	=	9.5	.0001
000	~	-3.2.	-21.1	•	7	079	15.	0.6	• 00
500.	- (4	-72.0	~ ∩	607	629	= :	10.9	0001
		3 4	6.24	~ •	· .	6,8	0	12.0	0001
14000.0		9.91	-24.7	y n	כ	929		7.71	5 6
0		-7.7	-25.6	, ~	9.	7.9	• •	15.2	0001
. J00	-	-8.8	9.9%-	2	99	633	v.	16.0	0001
200	•	١,	-77.5	C4 (54.	632	٠,	76.2	= 3
200			4.00.1	ソハ	, ,	651	- 0	16.5	
	; .	-13.3	- 40.1	ar.		, æ		16.9	0001
		3	- 70.B	m		2	× ×	17.7	0001
ë	•	٠.٥	-11.5	~	.06	7.	96	18.6	1000
•	÷	-17.5	2.2	J	80.	22	96	19.4	001
00	ġ.	-18.9	-11.6	,	0,	7	76	20.1	رزن
	0.554	-21.4		. J. C.	. c	<u> </u>		7 - 1 - 2	1.000
	9	-22.7				2	0	73.8	
000	50.			40.3	63.9.0	, .	و راسان	25.1	500
1500.	47.		5.	0	٩,	13	87.	26.3	5
2000	17.	26	7.9	ċ	<u>~</u>	1	e ۶.	27.3	0001
. 100.7	4.28.E	-27.	~	17.6	•	10	•	28.1	1.000117

STATION ALTITUDE 4051.00 FELF "SL 25 FED. 94 1215 485 MST

UPFFR AIR DATA 1500100400 JALLEN

CONTRACTOR OF THE CONTRACTOR O

GEODETIC CUORDINATES 33.16712 LAT DEG 106.49511 LON DEG 1.00011 1.000103 .000126 .000124 .000119 .000117 .000115 .000113 .000111 .000109 .000107 .000175 • 00000 .00000 .0000° ,0000. .00000 100001 . rono 99 8 00000 .00000 . 0000 F4 .0000 .0000. 0 0 0 0 0 0 0 • 0 .0000. •0000 .0000. .0000. . 0000 A9 . 00000 A 340000° .000uc4 .000043 .00000 . 00000 1.600078 .000121 REFRACTION INDEX 330.8 332.0 333.0 333.0 442.0 442.0 442.0 442.0 442.0 442.0 442.0 62.0 62.0 61.7 60.9 59.6 58.7 59.0 59.0 666.8 666.8 70.8 670.8 67.0 67.0 61.1 61.7 62.2 62.4 62.3 KNOTS WIND DATA DEGREES (TN) DIRFCTION 275.5 277.1 270.4 275.0 272.0 272.0 271.7 271.6 271.7 3.075 260.1 276.7 271.0 275.1 250.7 3.69.5 269.9 270.3 276.5 270.3 2.015 760.5 760.1 769.4 768.5 0.19 7.795 768.9 0.095 5.595 270.0 270.9 271.8 1.096 1.090 SPELLO OF 605.1 603.2 602.2 601.1 600.0 598.8 597.6 596.2 594.9 592.1 0.88 586.5 584.9 583.2 581.6 578.3 576.7 575.0 573.5 570.8 570.7 572.1 572.2 57?.3 0.04 571.9 570.4 568.8 567.4 8.799 8.63 572.7 569.4 67.5 7.99 65.5 572.5 572.3 SOUND KNOTS rable 12 Con't 414.9 78.8 294.6 551.6 45 4 . 3 9.00% 397.2 0.38 371.P 541.9 0.028 32.1 17.4 104.3 1.02 2.679 437.5 8.02 122.3 9.671 130.5 311.2 6. 7 287.8 20107 7.56 86.7 61.4 127.1 64.7 CH/CUB1C PLPSIIY MFTER MIL. HUM. 62.2 67.6 57.5 47.6 42.9 40.2 77.2** 21.8** 16.7** 11.6** 6.5** 1.3** Prkcent 6.90. DEFRIES CENTICRADE DIWINGTRY -45.5 -49.3 -54.4 -66.3 - 76.7 -42.3 --1.7 1.5.-0.77--61.2 TEMPERATURE AL. 1.46.3 -45.3 -54.0 5.6. -49.0 -57.6 -59.2 -58.5 -57.2 -7.7.5 -7.7.5 -41.1 -42.1 -43.2 -44.3 -50.3 8.53--58.8 -61.7 -63.0 -40° 0.73-2.8.-0.07--51.5 -60.0 -41.C -62.4 -58.6 "ILLIDARS PRE SSURF 3F.B. 6 361.8 294.9 288.1 281.5 275.6 262.5 256.4 250.5 244.6 233.1 227.5 272.1 211.4 206.3 201.3 106.5 87.2 91.6 70.1 64.6 75.4 76.6 ASCENSION NO. 24500.0 25500.0 0.00053 31.00°.0 3500.0 3.3003. 38500.0 0.005'4 0.008'4 0.008'4 1506.0 0.0057 GLORETRIC 25000.0 27000.0 27500.0 5r00.0 0.0082 0.000 2500.0 4000.0 5000.0 6500.0 17000.0 7.00.0 0.000 0.0055 1.00n.0 4.0500.0 41000.0 1:00.0 6500.0 42000.C rst feet ALTITUDE

KAS USLD IN THE INTERPOLATION AT LEAST O'T ASSUMED RELATIVE HUMINITY VALUE

910 910 910

N0110	ALTITUBE 40	51.00 FELT "SL	_	UPPER AIR DATA USQUG (UN2)	DATA 27		66006110	4
, S	NO. 23				2 Con't		106.	9511
					:			
GLONETRIC	PRLSSURE	TEMPER	RIL.HUM.	PENSITY	SPEED OF	0 0217	ATA	INDEX
ALTITUBE MSL FEFT	MILLIBARS	AIR DEWFOINT DEGREES CENTIGRADE	PERCENT	GM/CUBIC MFTER	SOUND	DIRECTION DEGRFES(TN)	SPEED KNOTS	OF REFRACTION
400¢	æ	-57.3		55.		272.6	9.99	,0000-1
500	154.5	-57.3		0	2	271.6	~	1.00005
5000	;	-57.2		•	572			1.0000
5500	7	-56.7		237.0	5	271.8	67.2	1.0000
0007	'n	-56.0		736.7	~	~	,	1.00005
6500	•	-55.7		224.9	~	275.7	2	1.00005
6007	٠,			220.4	23	778.	ċ	1.00004
	÷ <	- 0		7.017	"	281.2	10 y	1.00004
	•	7.05		7 202		70.0	2	70000
2000		1500		7.107 7.507	5.095	782.1	50.3	70000
5500	-	. 2.09-		199.2	6	280.6		1.00004
000	8	-61.0		194.7	~	0.070	•	1.00004
C 50 n	15.	-61.1		•	Ć 7	278.0	\$	1.0000
1000	12.	-61.3		185.7	67.	277.0	;	1.00004
1500	10.	-61.4		181.3	46.	274.2	41.2	1.00004
2005	70	-61.6		•		780.	•	1.0000
1000		\\		0.671	9	787	32.8	. 0000 • L
0.00012	102.4	6.19-		16%.0	9 4	284.3	26.9	0000
0007				161.	2 Y	* · · · · · · · · · · · · · · · · · · ·	•	0000
4500		9.21		157.4		284.2	• •	0000-1
5000	2	-62.9		151.8	79	781.6		1.0000
2200	å	-63.2		150.3	44	8.775	25.7	1.0000
6000	8	-63.5		146.8	79	273.0	•	1.0000
6500	۰.	163.8		744.5	563.7	250.5	21.5	0000
7500	•	7.00		137.1	2 4	7.00	•	0000
8000	0	- m-		132.8	564.7	262.4	, ,	1.0000
E 500	78.	-A2.8		120.4	6.5	259.0	-	1.0000
O.	76.	-42.5		126.1	65	5.4		1.0000
9500	74.	-62.2		122.8	9	250.2	•	1.00002
0000	72.	-61.9		110.7	566.3	46.	•	1.00002
200	70.	-61.5		116.6	99	٠.	•	1.0000
1000	69	n		117.7	567.0	•	10.6	1.0000
1500	67.	7-11-5		110.9	٠	254.5	•	1.0000
6.700.0	65	161.C		•	~	261.5	~ · ∞ ·	1.000
2500	• 4 9			105.5	47	~	•	1.0000
3000	62.	Z-02-		102.9	567.8	277.	7.0	1.0000
3500		٠,٠٥		100.3		7.8 ° .	9	1.0000

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THE STATE OF THE PROPERTY OF T

CTATION ALTITUDE 4051. PU FEET PSE 26 FFB. 84 1215 HRS MST ASCENSION NO. 23

UPPFR AIR DATA 0590 30023 JALLFN

GEODETIC COORDINATES
37.16712 LAT DEG

Transa many many many

A P. S.

	SCERS TON	NO. 23			TABLE 1	2 Con't		106.	106,49511 LON NEG
	717006	PRESSUR	TEMPERATURE Ale DIWPOI	RFL.HUM Pfrcent	> -	PEFD O SOUND	WIND DIRECTION	SPEED	
1,000 1,00	. 16 F	11. L I BAR	LGRFES CENTIGR			KNOTS	GREE	KNOTS	•
55.0 50.4 55.4 415.8 41.0 10000 55.0 50.4 50.4 415.8 42.7 42.7 10000 55.0 50.4 50.4 41.8 52.4 42.7 10000 50.0 50.4 50.4 50.4 64.7 84.7 50.4 42.7 10000 50.0 50.4 50.4 50.4 64.7 84.7 50.4 42.7 10000 50.0 50.4 50.4 50.4 64.7 84.7 50.4 42.7 10000 50.0 40.4 50.4 50.4 72.4 10000 <t< td=""><td>4000</td><td>3</td><td></td><td></td><td></td><td>89</td><td>~</td><td>•</td><td>0000</td></t<>	4000	3				89	~	•	0000
5500.0 56.6 75.7 3.7 1.0000 5500.0 56.6 75.7 3.7 1.0000 5500.0 56.2 4.7 5.7 1.0000 560.0 57.2 4.7 5.7 1.0000 560.0 57.2 4.7 5.7 1.0000 560.0 56.4 56.4 5.7 1.0000 560.0 56.4 56.4 5.7 1.0000 560.0 56.4 56.4 5.7 1.0000 560.0 56.4 57.4 57.4 1.0000 560.0 56.4 57.4 57.4 1.0000 560.0 56.4 57.4 57.4 1.0000 560.0 56.4 57.4 57.4 1.0000 560.0 57.4 57.4 1.0000 1.0000 560.0 57.4 57.4 57.4 1.0000 560.0 57.4 57.4 57.4 1.0000 560.0 57.4 57.4	4500.	•			,	68	\$		7000n
7500.0 55.6 4.5.7 4.5.9 1.000 5500.0 55.6 4.5.7 5.5.0 4.5.7 4.5.1 1.000 5500.0 55.2 4.9.5 5.6.0 4.5.7 4.5.1 1.000 5500.0 55.6 4.5.7 5.6.7 7.7 1.000 5500.0 55.6 5.6.7 7.7 1.000 5500.0 45.2 5.6.7 7.7 1.000 5500.0 45.2 5.6.7 7.7 1.000 5500.0 45.2 5.6.7 7.7 1.000 5500.0 45.2 5.6.7 7.7 1.000 5500.0 45.2 5.6.7 7.7 1.000 5500.0 45.2 5.6.7 7.7 1.000 5500.0 45.6 5.7 1.000 7.7 1.000 5500.0 45.6 5.7 1.000 7.7 1.000 5500.0 45.6 5.7 1.000 7.7 1.000	snoc.	ė				568.6	15 7.1	3.7	1.0000.1
6500 54.2 56.9.0 47.5 5.5 10000 6500 52.2 54.9 86.3 56.9.0 47.5 5.5 10000 700 51.6 59.4 70.4 7.7 11.0 10000 600 45.0 56.4 70.4 72.8 11.0 10000 600 45.0 56.0 70.4 72.8 11.0 10000 600 45.0 56.0 70.4 72.8 11.0 10000 600 45.0 57.0 70.1 72.8 10000 600 45.0 70.4 72.8 11.0 10000 600 45.0 70.4 72.8 10000 10000 700 45.0 70.4 72.8 10000 10000 700 45.0 70.4 72.8 10000 10000 10000 700 45.0 70.4 72.8 10000 10000 10000 10000 700	5500.	'n	-40.6		ċ	568.8	2.	4.3	0000
55.00.0 52.9 56.2 54.9 7.0 1.0000 5700.0 51.6 55.9 56.9 56.9 7.2 11.0 1.0000 5500.0 50.4 66.2 72.7 12.4 1.0000 1.0000 5500.0 46.9 76.2 570.4 72.7 12.4 1.0000 5500.0 46.9 76.2 570.4 72.7 12.4 1.0000 5500.0 46.9 76.2 570.4 72.7 13.4 1.0000 5500.0 46.9 76.2 77.4 77.2 14.3 1.0000 5500.0 47.5 570.4 77.2 14.3 1.0000 5500.0 47.5 570.4 77.4 14.3 1.0000 5500.0 47.5 570.4 77.4 14.3 1.0000 5500.0 47.5 57.4 57.4 14.3 1.0000 5500.0 47.5 57.4 57.4 17.4 1.0000 55	£000°		8.65-		ď.	69	۲.	5.5	1.0000 20
500.0 51.5 589.4 64.5 64.5 64.5 64.5 64.5 64.5 11.0 10000 500.0 50.4 59.5 77.1 72.8 11.0 10000 500.0 46.9 -58.6 77.1 77.1 13.8 10000 500.0 46.9 -58.6 77.2 570.4 77.1 13.8 10000 500.0 45.9 -58.4 77.2 77.2 77.2 10000 500.0 45.6 -58.4 77.2 77.2 77.1 113.2 10000 500.0 45.6 -58.4 6.7 77.2 77.1 10000 10000 500.0 41.6 -57.2 77.1 77.1 77.1 100000 100000 100000	6500.	~			ç	69	,	7.0	00001
1000	700v.	_:	•		,	69.	;	8.9	10000
1000	7500.	å	•		82.1	59	C	11.0	0000
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MANAGEMENT OF THE PROPERTY OF

GEODETIC CUONDINATES 33.16712 LAT BEG 106.49511 LON BEG

TABLE 12 Con't

6LOMETRIC	PRESSURF	TEM	TEMPERATURE	REL.HUM.	DEMSITY	SPEED OF	WIND DATA	Y A	INDEX
ALTITUBE MSL FEFT	PILLIBARS	•	AIR DFWFOINT EGREES CLNTIGPADE	PERCENT	SA/CUBIC SOUND METER KNOTS	SOUND KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	OF RFFRACTION
84000.0	22.9	4.5.9			36.7		89.0	40.2	1.000008
84500.0	72.4	-55.7			35.3		u•06	40.2	1.000008
85000.0	21.8	-55.6			35.0	574.6	89.7	41.1	1.0000 ns
85500.0		-45.5			34.1		80.4	42.1	1.000008
8 6 COO . O		-45.3			33.3		89.5	45.6	1.00007
36500.0		-55.5			32.5		9 n	42.3	1.000007
87000.0	19.9	-55.1			31.7		91.0	42.0	1.000007
87:00.0	19.4	6.95-			31.0		91.1	42.2	1.00001
95000.0	16.9	8.75-			30.2		91.6	45.4	1.000007
88500.0	18.5	2.45-	٠		50.5				1.00001
85000.0	18.1	-54.6			24.8				1.000006
0.0353	17.6	-54.5			1.00.				1.000006
0.00039	17.2	-54.3				€.			1.666016

STATION ALTITUDE 4051.00 FEET "SL 28 Feb. 94 1215 HRS HST ASCENSION NO. 23

MAMBATONY LEVELS GS9007UN23 Jallen

GFODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 13

PRESSURE GEOFUTENTIAL	OFUTENTIAL	V	TEMPERATUPE R DEVPOINT	PERCENT.	WIND DATA	DATA
MILL IPARS	Lili	DIGREES	CFNTIGRADE		DEGREES (IN)	
P50.0	509¢.	1°4	-11.6	31.	175.6	5.3
P0n.1	6701.	1.6	-14.1	30.	197.2	5.5
750.0	8 401.	1.2	-18.0	22.	2.992	7.2
70.0	10216.	-1.4	-17.9	27.	287.R	9.5
650.0	12147.	-3.5	-21.1	23.	314.0	10.1
U 0 0 V	14769.	-7.1	-25.1	22.	6.505	14.8
550.0	16415.	-11.9	29.5	22.	300.0	16.6
500.0	1878r.	-18.4	-32.7	27.	295.2	19.8
450.0	21 127.	6.92-	-34.6	* 0 *	287.4	25.9
0.007	26032	-32.3	-36.4	65.	275.0	31.0
15n.0	27149.	-38.3	-47.0	35.**	274.5	19.2
0.05	70573	-45.6			271.1	48.5
250.0	.4474.	-55.4			270.4	67.0
200.0	. 3 70 6 5	-60.4			267.7	62.2
175.0	41904.	-57.3			26 M. O	58.7
157.9	45n00.	-57.2			270.5	68.9
12.0	48784	-59.7			282.4	20.7
10,0	53.28.	-62.0			286.5	25.9
8°°.0	57832	-63.1			262.4	14.8
70.0	40538.	-61.4			246.7	11.5
0.09	£3682.	-60.4			289.2	5.9
50.0	17419.	-59.3			71.9	11.6
40.0	72023.	-57.6			7.57	19.0
30.0	.1994.	-57.4			84.3	4.9
25.0	P1782.	-56.4			88.7	37.5
20.0	8.6444.	-55.1	-		7.06	42.1

** AT LFAST O'E ASSUMFD RELATIVE HUMIPLTY VALUE WAS USED IN THE INTERPOLATION.

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ELLIZED)

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